



CONSTRUCTION EQUIPMENT

VOLVO L220G 12011 - HYDRAULIC SYSTEM



Sample No: VCP331081
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP331081	VCP162125	VCP148619	VCP168049
Sample Date	30 Nov 2021	30 Sep 2015	21 Jul 2015	02 May 2015
Machine Hours	18873	9146	8604	8009
Oil Hours	0	0	1000	0
Oil Changed	Not Changd	N/A	N/A	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

CALLANAN
 RT 32 677 FLATBUSH RD
 EAST KINGSTON, NY
 US 12401
 Contact:

OIL CONDITION

Visc @ 40°C	cSt	42.0	41.51	41.68	42.17
Acid Number (AN)	mg KOH/g	0.728	1.18	0.668	0.940

T:
F:

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		11329	216	10886	949
Particles >6µm		1158	117	830	517
Particles >14µm		27	20	18	88
ISO 4406:1999 (c)		21/17/12	15/14/11	21/17/11	17/16/14
Silicon	ppm	11	15	15	11
Sodium	ppm	4	3	2	2
Potassium	ppm	0	0	2	2

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	5	6	6	5
Copper	ppm	1	6	6	5
Lead	ppm	1	0	0	<1
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	3	3	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	2	2	1
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	2751	1898	1936	1782
Magnesium	ppm	30	10	9	8
Zinc	ppm	1207	981	967	861
Phosphorus	ppm	1071	769	805	740
Barium	ppm	0	0	0	0
Boron	ppm	53	45	49	50

Depot: CALEAS
Unique No: 9762450
Signed: Jonathan Hester
Report Date: 03 Dec 2021

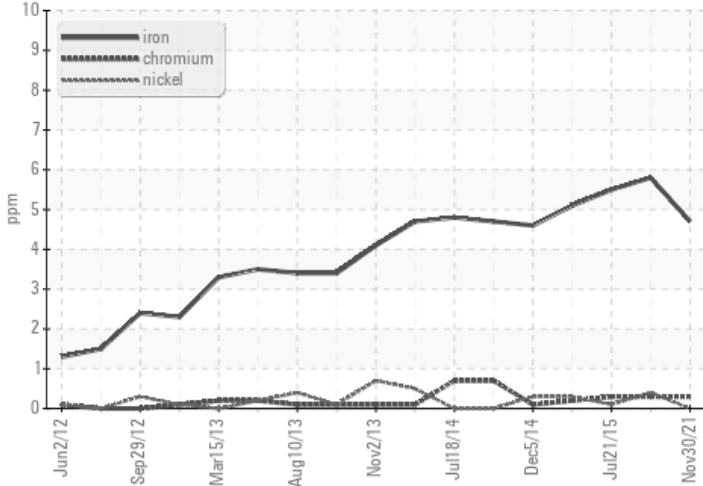


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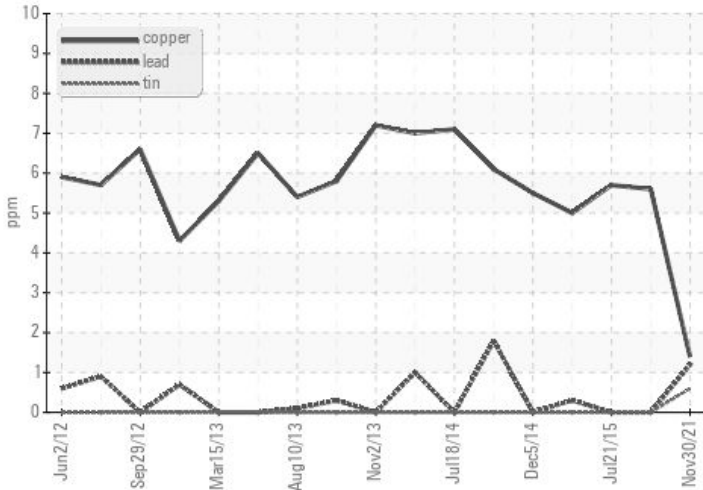


VOLVO GRAPHS

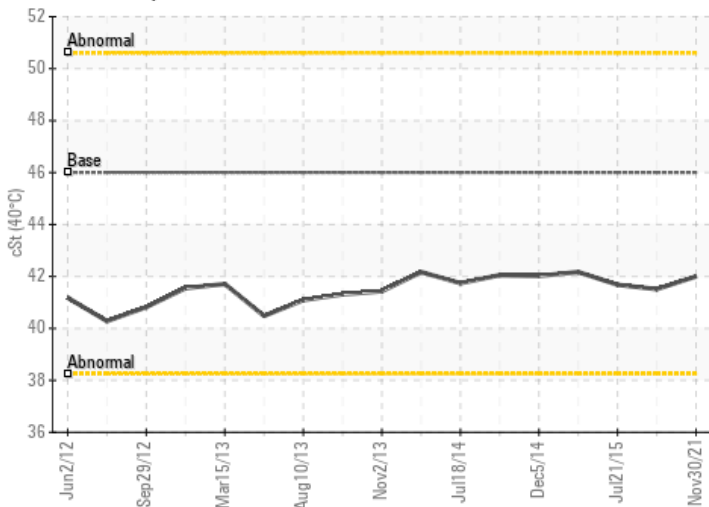
Ferrous Alloys



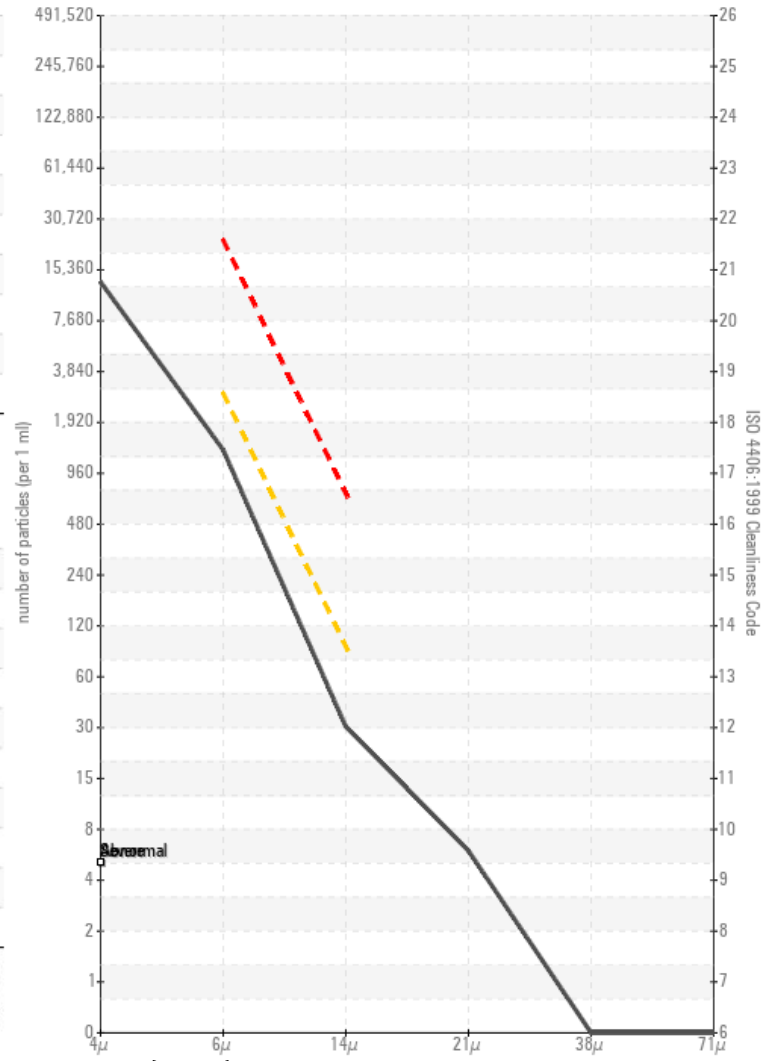
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

